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11	UNITED STATES DISTRICT COURT		
12	NORTHERN DISTRICT OF CALIFORNIA		
	SAN FRANCISCO DIVISION		
13			
14	SYNOPSYS, INC.,	Case No. 3:17-cv-00561-WHO (LB)	
15	Plaintiff,	DEFENDANTS UBIQUITI NETWORKS, INC., UBIQUITI	
16	V.	NETWORKS INTERNATIONAL	
17	UBIQUITI NETWORKS, INC., UBIQUITI	LIMITED, AND CHING-HAN TSAI'S BRIEF IN OPPOSITION	
18	NETWORKS INTERNATIONAL LIMITED, CHING-HAN TSAI, and DOES 1-20,	TO SYNOPSYS' REQUESTS FOR INSPECTION	
19	inclusive,	Date: January 18, 2018	
20	Defendants.	Time: 9:30 a.m. Place: Courtroom C, 15th Floor	
21		Judge: Honorable Laurel Beeler	
22	UBIQUITI NETWORKS, INC. and UBIQUITI		
23	NETWORKS INTERNATIONAL LIMITED,		
24	Counterclaimants,		
25	V.		
	SYNOPSYS, INC.,		
26	Counterdefendant.		
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INTRODUCTION

Synopsys has approached this case with a single discovery demand from the beginning—to image Defendants' computers. The very first time the parties spoke about discovery, immediately after the June 14, 2017 case management conference, Synopsys said that it would need to image Defendants' computers. *No* discovery requests had even been served at the time. Synopsys proposed first imaging the devices of what Synopsys called "the top five users" once Synopsys provided those names to Defendants, but it did not identify them until August 22. A few weeks after that, Synopsys served the 56 requests for inspection at issue here, disregarding its proposal to focus on the "top five users."

During a November 3 in-person conference regarding the requests for inspection, Synopsys did not address *any* of the objections that Defendants made to the inspection requests and instead focused on how the imaging and inspection should proceed. Synopsys also deflected discussion of the voluminous documents that Defendants had already collected and was reviewing because this case would allegedly turn "entirely" on forensic evidence. Demonstrating ignorance of the burden of its 56 requests for inspection, Synopsys even suggested that as a first step Defendants should collect the multitude of devices at issue in a single room in Taiwan so that its forensic experts could then quickly inspect each device by typing in a few simple commands. This is not the type of inspection it now seeks for Defendant Ching-Han Tsai's devices.

Synopsys made these repeated demands even while it refused to turn over the "call-home" data that it claims support its allegation of over 39,000 acts of circumvention of Synopsys' license key system. Synopsys will claim that it could not turn over that data without a protective order, even though the "call-home" data is data that Synopsys acquired *from Defendants*, and that Defendants dragged their feet in negotiating the protective order—which is not at all true. What is true is that the "call-home" data that Synopsys finally produced on December 1 demonstrates that all but 626 of the alleged acts of circumvention took place entirely outside the United States, and that the remaining 626 acts of circumvention were all *completed* outside the United States as well. Thus, while Synopsys has been pressing to image dozens of computers and multiple complex servers, containing highly confidential and attorney-client privileged information, it was

withholding from Defendants the very data that show that *none* of the acts of circumvention took place completely within the United States (despite Synopsys' allegations in its complaint), and that at most, 626 of the acts were initiated from the United States.

As discussed further below, the case law is clear that there is *no* DMCA liability for acts such as those recorded by Synopsys' call-home data. Defendants have already imaged the computers used by Defendant Tsai, who occasionally works from the U.S. and has reason to use the type of electronic design automation (EDA) software tools at the center of this dispute. An inspection of those images will take place as soon as the parties agree to an inspection protocol. Defendants are also willing to make available for inspection the computers of the one U.S-based engineer, Sheng-Feng Wang, who engaged in a single instance of debugging assistance using Synopsys software. Given that there is no liability in the U.S. for acts of circumvention that occur or are completed outside of the U.S., Synopsys has no basis to image or inspect any of the other computers or servers that it is seeking.

BACKGROUND

A. Synopsys' Requests for Forensic Inspection

On September 8, 2017, Synopsys served 59 identical requests on Ubiquiti and UNIL to inspect and copy a variety of electronic devices. (Declaration of Jennifer Lee Taylor ("Taylor Decl.") ¶ 3, Ex. A.) The requests cover forensic inspection of:

- electronic devices used by nine employees (Request Nos. 1-9);
- electronic devices used by users of fifteen usernames (Request Nos. 10-24);
- electronic devices bearing fourteen MAC addresses (Request Nos. 25-38);
- electronic devices bearing sixteen IP addresses (Request Nos. 39-54); and
- electronic devices bearing five hostnames (Request Nos. 55-59).

On December 1, 2017, Synopsys finally produced a spreadsheet of the "call-home" data that it states provide the basis for these inspection requests. As indicated by that spreadsheet, only 626 of the approximately 39,000 call-home events—each of which Synopsys argues is a single act of circumvention under the Digital Copyright Millennium Act (DMCA)—correspond to an "egress" IP address originating from the United States between November 2014 and March 2016. (Taylor

Decl. ¶ 6.) The remaining 38,178 data entries correspond to an egress IP address from Taiwan. (Id.) In addition to an egress IP address, each call-home entry identifies a server or host name, username, date, time, and one or more associated MAC addresses. (Id.) Synopsys' counsel has represented that the MAC addresses identified by the call-home data correspond to computers that have Synopsys software on them and that transmit data back to Synopsys when a counterfeit key is detected. (Id.)

В. **Relationship of Requested Devices to the United States**

Employee Computers. Synopsys' inspection requests encompass at least 26 different employee computers. Not only are most of these devices physically located in Taiwan, most have no connection whatsoever to computer systems in the United States because they are used by team members who reside in Taiwan, work in UNIL's Taipei office, and perform their daily work on UNIL's local computer networks in Taipei. The team consists of 18 engineers with different roles on a discrete project to design a semiconductor chip for one of Ubiquiti's products. (Declaration of Ching-Han Tsai ("Tsai Decl.") ¶ 2.) Defendant Tsai was hired first as the project lead in September 2013, and was responsible for building the rest of the team. (Id.) Due to a faster hiring process in Taiwan, Tsai chose to base the team, with one exception, at Ubiquiti's major research and development location in UNIL's Taipei office, and relocated himself from the U.S. to Taiwan to be in the same location as other team members. (*Id.*)

Of the 17 current team members in UNIL's Taipei office, just one—Tsai—travels from Taiwan to the U.S. on occasion for work or to visit family, and would have need to use EDA software tools regularly while in the United States. (*Id.* ¶¶ 13-14.) One other team member, Sheng-Feng Wang, is based in the U.S. but has no need to use EDA software tools in his regular

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¹ Defendants emphasize "at least" because Synopsys' requests, specifically Request Nos. 39-54 for any electronic devices "bearing" fifteen different IP addresses, potentially capture hundreds and hundreds of Defendants' computers—not just those used by the relevant custodians whom Defendants identified in interrogatory responses—that may have used any one of the corporate IP addresses at any given point in time, but that have no relevancy other than use of a common IP address at a hundred-plus person site. Defendants timely objected to these requests as vague, overly broad, and unduly burdensome. (See Taylor Decl. ¶ 3, Ex. B.) Synopsys never conferred regarding those objections. (Id. ¶ 4.) Defendants request that the Court decline to allow any inspection that would be covered by Request Nos. 39-54 based on those objections.

work given his project role. (Declaration of Shen-Feng Wang ("Wang Decl.") ¶¶ 2, 6.) While the entire team has access to two shared username accounts on UNIL's computer systems, only a select few have a reason to access EDA software for designing application specific integrated circuits (ASIC), let alone the technical skills to use such software or an occasion to use it from the United States. (Tsai Decl. ¶ 17.)

Server Devices. In addition to employee devices, Synopsys' inspection requests identify MAC addresses and host names for several computational servers and virtual machines that are not only located in Taiwan, but also contain the only copies of EDA software that would have been used by the current team members whose role is to design and test ASIC chips. (See id. ¶¶ 7-13.) All EDA software used by the team is located on a storage array in UNIL's Taipei office, and accessible only via three computational servers and the virtual machines on them, also in Taiwan, which are networked with the storage array. (Id. ¶ 12.) This local area network is remotely accessed by ASIC design team members using their individual laptops and computers. (Id.) Because of the nature of ASIC design work, including the processing resources that are required for running simulations, this local network of computational servers and virtual machines in UNIL's Taipei office is separate from Ubiquiti's IT infrastructure, including the rest of UNIL's IT infrastructure in Taiwan. (Id.)

Any ASIC design team member who needs to access EDA software on the storage array does so by first logging into his computer and connecting remotely to the computational servers to initiate simulations. (Id. ¶ 13.) Those computational servers, and any virtual machines residing on them, then use the EDA software located on the storage array to conduct the simulations. (Id.) Because of how UNIL's computer networks and servers are configured, there is no need for any EDA software or license key to be loaded on an employee computer. (Id.)

ARGUMENT

I. U.S. COPYRIGHT LAWS APPLY ONLY TO ACTS THAT ARE COMPLETED WITHIN THE UNITED STATES

The purported purpose of Synopsys' requests to forensically inspect Defendants' electronic devices—to find evidence of forensic artifacts of license key generators, use of piracy

websites, external drives, and user profiles (*see* Dkt. No. 99 at 2)—is only relevant to Synopsys' first claim of circumvention of Synopsys' license-key system under the DMCA, 17 U.S.C. § 1201(a)(1). This section of the DMCA makes it a violation to "circumvent" a technological measure that effectively controls access to a copyrighted work, by descrambling a scrambled work, decrypting an encrypted work, or otherwise avoiding, bypassing, removing, deactivating, or impairing the technological measure. 17 U.S.C. § 1201(a)(1), (3). Synopsys asserts thirteen copyrighted software programs that are access-controlled by Synopsys' license-key system, and Synopsys alleges that Defendants circumvented the license-key system through use of "counterfeit" license keys in violation of the DMCA. (Dkt. No. 73 ¶¶ 24-26, 28.) No other claim asserted by Synopsys justifies a burdensome forensic inspection of Defendants' devices for forensic artifacts of software usage, nor has Synopsys asserted that one is necessary for any other claim. Discovery on Synopsys' other claims may be addressed through document production.

As explained below, Defendants believe the requested forensic inspection, which would encompass at least 26 employee computers and 3 servers located in Taiwan, goes well beyond the scope of this action, and seeks discovery of entirely irrelevant information, because liability under the DMCA can only extend to acts of circumvention that are completed within the United States.

First, it is black letter law that U.S. copyright laws do not impose liability for extraterritorial acts. In Subafilms, the Ninth Circuit confirmed the longstanding principle that U.S. copyright laws do not reach acts of infringement that occur outside the United States. Subafilms, Ltd. v. MGM-Pathe Commc'ns Co., 24 F.3d 1088, 1095-96, 98 (9th Cir. 1994) (en banc) ("The undisputed axiom . . . that the United States' copyright laws have no application to extraterritorial infringement predates the 1909 Act, . . . and, . . . the principle of territoriality consistently has been reaffirmed.") (citations omitted). Faced with a U.S. defendant who, from the United States, authorized a foreign company to distribute copyrighted materials outside the United States, the Ninth Circuit stated that the defendant's "mere authorization of acts of infringement . . . [that] occur entirely outside of the United States does not state a claim for infringement under the Copyright Act," and found the defendant not liable. Id. at 1099.

Similarly, in Allarcom, the Ninth Circuit found that a U.S. defendant was not liable under

the Copyright Act for committing a part of an act of infringement that *began* in the United States and culminated overseas. *Allarcom Pay Television, Ltd. v. Gen. Instrument Corp.*, 69 F.3d 381, 387 (9th Cir. 1995). Citing its prior *Subafilms* decision, the Ninth Circuit stated:

We held that in order for U.S. copyright law to apply, at least one alleged infringement must be completed *entirely within* the United States, and that mere authorization of extraterritorial infringement was not a completed act of infringement in the United States. *Subafilms*, 24 F.3d at 1094, 1098. In this case, defendants either *initiated* a potential infringement in the United States by broadcasting the Showtime signal, which contained copyrighted material, or defendants authorized people in Canada to engage in infringement. In either case, the potential infringement was only *completed* in Canada once the signal was received and viewed. Accordingly, U.S. copyright law did not apply, and therefore did not preempt Allarcom's state law claims.

Allarcom, 69 F.3d at 387 (emphasis added).

As *Subafilm* and *Allarcom* show, liability does not exist if only *some* part of a violative act was initiated within the United States. Rather, the violative act must be *completed* within the territorial boundaries of the United States for U.S. copyright law to apply, as a contrary result would displace foreign copyright laws and cause potential international discord. *See Subafilms*, 24 F.3d at 1097-98 (noting an application of U.S. law to copyrighted materials distributed exclusively by national citizens in a foreign country undermines the spirit of national treatment under the Berne Convention); *cf. Robert Stigwood Grp. Ltd. v. O'Reilly*, 530 F.2d 1096, 1100-01 (2d Cir. 1976) (no liability for performances of copyrighted work in Canada merely because performers assembled and arranged all necessary elements in the United States). These cases are clear that the site of the completed violative act determines which country's copyright laws apply, and it is irrelevant whether the initiating act is integral to the final completed act.

Second, to assess whether acts involving computer transmissions over the Internet may create liability under U.S. copyright law, the Ninth Circuit has derived a "server test" for determining the site of the alleged violation. *See Perfect 10, Inc. v. Yandex N.V.*, 962 F. Supp. 2d 1146, 1153 (N.D. Cal. 2013). That test "makes the hosting website's computer [which stores electronic information and serves that information to the user], rather than the search engine's computer [which merely frames electronic information for the user but does not store it], the situs

of direct copyright infringement liability." *Id.* (citing *Perfect 10, Inc. v. Amazon.com, Inc.*, 508 F.3d 1146, 1159-60 (9th Cir. 2007)). In *Yandex*, the defendants moved for summary judgment on the plaintiff's direct copyright infringement claim based on acts of infringement concerning content hosted on servers in Russia. Applying the Ninth Circuit's server test, the *Yandex* court granted summary judgment for the defendants, holding that the hosting of images on Russian servers are extraterritorial acts that are not actionable under U.S. copyright law. 962 F. Supp. 2d at 1152-53. Notably, the court rejected the notion that U.S. copyright liability may arise merely because an image could be downloaded from a foreign server by a user in the United States as "[s]uch a principle would destroy the concept of territoriality inherent in the Copyright Act for works on the internet." *Id.* at 1153. As *Yandex* illustrates, even activities conducted over the Internet must be identified by where they occur—i.e., within the borders of the country of origin or destination—for purposes of determining which country's copyright laws govern.

II. ACTS INITIATED IN TAIWAN AND COMPLETED ON TAIWAN SERVERS ARE NOT ACTIONABLE UNDER THE DMCA

Synopsys has asserted a claim of circumvention under the Digital Millennium Copyright Act, a copyright law that implemented two World of Intellectual Property Organization (WIPO) treaties to which the U.S. is a signatory—the WIPO Copyright Treaty and WIPO Performances and Phonograph Treaty—and created U.S. remedies for circumvention conduct.²

As an initial matter, Synopsys has previously suggested that extraterritoriality jurisprudence under the Copyright Act does not extend to the DMCA. This is contrary to both *Subafilms* and lower court authority that have held that U.S. copyright laws, of which the DMCA is one, do not have extraterritorial effect. *See, e.g., M Seven Sys. Ltd. v. Leap Wireless Int'l, Inc.*, 2014 WL 12026065, at *6 (S.D. Cal. June 4, 2014) (the DMCA does not apply if the alleged violation occurred in a foreign nation). Furthermore, the Supreme Court has held that courts must "assume that Congress legislates against the backdrop of the presumption against extraterritoriality," and must presume a federal statute concerns only domestic activities absent "the affirmative intention of the Congress clearly expressed." *EEOC v. Arabian Am. Oil Co.*, 499

² See http://www.wipo.int/copyright/en/activities/internet treaties.html.

U.S. 244, 248 (1991) (citation omitted). Here, the statutory language lacks any indication of Congress' intent to reach beyond U.S. borders, as confirmed by text relating to U.S.-only sales of copy-control circumvention technology in 17 U.S.C. § 1201, and the legislative history "further supports the contention that the DMCA was seen [by Congress] as a protectionist, nationalistic law that only applied territorially." Adam D. Fuller, Extraterritorial Implications of the Digital Millennium Copyright Act, 35 Case W. Res. J. Int'l L. 89, 111-112 (2003). The territorial limit of the DMCA is therefore presumed.

Because the DMCA does not apply to extraterritorial activity, Defendants cannot be held liable for any alleged acts of circumvention that were initiated on employee computers in *Taiwan* and completed on servers in *Taiwan*, which did not involve any computer systems in the United States. Under Ninth Circuit law, Defendants are not liable because these alleged acts occurred entirely in Taiwan. See Subafilms, 24 F.3d at 1099. According to Synopsys' data, 38,178 of the approximately 39,000 call-home entries are associated with (i) an egress IP address from Taiwan, and (ii) a host name and MAC address corresponding to a computational server or virtual machine in Taiwan. (See Taylor Decl. ¶ 6, Tsai Decl. ¶¶ 6-9.) This is no surprise as only one engineer on the entire project team, Sheng-Feng Wang, is based in the U.S., and only Defendant Tsai in UNIL's Taipei office regularly travels to and works from the U.S. (Wang Decl. ¶ 2, Tsai Decl. ¶ 14.) Because these 38,178 alleged acts of license-key circumvention initiated from Taiwan are not actionable in the U.S., Synopsys has no basis to forensically inspect the UNIL employee computers that might account for such wholly extraterritorial acts. Defendants have submitted declarations from fifteen of the sixteen UNIL engineers verifying that each person lives and works in Taiwan and had no reason to access Synopsys software using his work computer in the U.S. (either because the employee has never traveled to the U.S. or had no need for it).³

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³ The sixteenth UNIL employee (a software engineer based in Taipei) is on vacation this

week. He traveled to the U.S. only one time for work in August 2017, after the filing of the lawsuit. (Declaration of Hayley Nivelle ¶ 6.) Defendants have submitted a separate declaration

regarding two project team members no longer employed UNIL who, like the current UNIL engineers, worked in the Taiwan office. (Id. ¶¶ 3-5.) One never traveled to the U.S. for work; the

other traveled to the U.S. in March 2014, which predates the period of "calls home" from the United States according to Synopsys' data, meaning that employee could not have used Synopsys

software in the U.S. (See Taylor Decl. ¶ 6.)

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These employees' computers, totaling 26 or more, should thus be excluded by the Court from any required forensic inspection.

III. ACTS INITIATED IN THE UNITED STATES AND COMPLETED ON TAIWAN SERVERS ARE NOT ACTIONABLE UNDER THE DMCA

Synopsys' call-home data makes it clear that all of the remaining 626 alleged acts of circumvention were, at most, only *initiated* in the U.S. and then completed on servers in Taiwan. Under *Allarcom*, there is no liability where an act is initiated in the U.S. but *completed* in another country. *Allarcom*, 69 F.3d at 387. Further, applying the Ninth Circuit's "server test" to these alleged acts of circumvention initiated in the U.S., it is clear that the site of the violative act (the alleged use of "counterfeit" license keys to circumvent Synopsys' license-key system) are the servers that actually hosted Synopsys software—because that is the only place where the act *could* be completed—and not an employee computer that remotely initiated the act or where the displayed results could be viewed. *See Perfect 10*, 508 F.3d at 1159-61 (noting "it is the website publisher's computer, rather than Google's computer, that stores and displays the infringing image," and "Google's search engine communicates HTML instructions that tell a user's browser where to find full-size images on a website publisher's computer, but Google does not itself distribute copies of the infringing photographs"); *Yandex*, 962 F. Supp. 2d at 1152-53 (hosting of infringing images on Russian servers are extraterritorial acts that are not actionable under U.S. copyright law).

Synopsys' call-home data includes 14 MAC addresses. (Taylor Decl. ¶ 6.) A MAC address is a unique identification number for an electronic device. (Tsai Decl. ¶ 7.) The 14 MAC addresses correspond to three UNIL servers located in Taiwan, and to virtual machines located on those servers (*see* Tsai Decl. ¶¶ 7-9), but only 3 of the 14 MAC addresses appear in the entries where "USA" is listed as the country. (Declaration of Shahin Nazarian ("Nazarian Decl.") ¶ 8.) The three UNIL servers have never left UNIL's facility in Taiwan. (Tsai Decl. ¶ 11.) Notably, the MAC addresses for Tsai's own computers do not appear at all in the call-home data, including in the call-home data for entries where "USA" is listed as the country, even though Tsai used his laptop while in the U.S. to initiate simulations remotely in Taiwan. (*Id.* ¶¶ 10, 14-15.) This is not

surprising because, as explained by Defendants' expert, Professor Shahin Nazarian of the University of Southern California Viterbi School of Engineering, the MAC addresses in the callhome data identifying "USA" as the country are for servers in Taiwan. (Nazarian Decl. ¶¶ 7-11.) Given this, there is no support for a claim that *any* Synopsys software was installed on Tsai's computers. (*Id.* ¶ 12.) Likewise, there is no support for a claim that Synopsys' software was installed anywhere other than on servers and virtual machines in Taiwan. Thus, the facts here are analogous to those in *Allarcom*, where the Ninth Circuit held that there was no liability under the U.S. copyright laws where transmissions were initiated or authorized from the U.S., but *completed* in Canada. *Allarcom*, 69 F.3d at 387.

Nevertheless, even though there is no reason to believe that they ever had Synopsys software installed on them, Defendants have already imaged Tsai's computers and will make them available to Synopsys for inspection as soon as the parties agree to an inspection protocol. (Taylor Decl. ¶ 5.) Defendants are willing to do the same for the computers of Sheng-Feng Wang, the only team member based in the U.S., not because Synopsys has come forward with any justification for believing that they ever had Synopsys software installed on them, but because inspecting them will prove that they did not. There is absolutely no justification for inspecting any other devices based upon claims that Synopsys' software was used from the United States. It is Synopsys' burden to show that it is seeking discovery "relevant to any party's claim or defense and proportional to the needs of the case." Fed. R. Civ. P. 26(b)(1) (emphasis added). It has not and its requests for further imaging or inspection should be denied.

CONCLUSION

Defendants believe Judge Orrick will rule on summary judgment that none of the 39,000 alleged license-key circumventions that happened in Taiwan—as could only have happened since Synopsys' software was hosted on servers in Taiwan—is actionable under the DMCA. Thus, Defendants believe that there is no basis to permit Synopsys to forensically inspect 29 or more employee computers and servers located in Taiwan, considering the immense burden and expense of coordinating such inspection, and the disproportionality of the requests based on their marginal value to the case.

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